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Modeling the martian atmosphere with the LMD global climate model

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How to cite:

Millour, Ehouarn; Forget, Francois; Spiga, Aymeric; Navarro, Thomas; Madeleine, Jean-Baptiste; Pottier, Alizee; Montabone, Luca; Kerber, Laura; Lefèvre, Franck; Chaufray, Jean-Yves; López-Valverde, Miguel; González-Galindo, Francisco; Lewis, Stephen; MCD/GCM team; Millour, E.; Forget, F.; Spiga, A.; Montabone, L; Colaitis, A.; Navarro, T.; Lebonnois, S.; Madeleine, J.-B.; Meslin, P.-Y.; Chaufray, J.-Y.; Lefèvre, F.; Montmessin, F.; González-Galindo, F.; Lopez-Valverde, A.; Gilli, G.; Lewis, S. R.; Read, P. L.; Desjean, M.-C. and Huot, J.-P. (2014). Modeling the martian atmosphere with the LMD global climate model. In: COSPAR Information Bulletin, article no. C3.3-0005-14.

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Space Studies of the Upper Atmospheres of the Earth and Planets including Reference Atmospheres (C)

Modelling of Planetary Atmospheres (C3.3)

Either poster or oral presentation (no preference).

MODELING THE MARTIAN ATMOSPHERE WITH THE LMD GLOBAL CLIMATE MODEL

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Our Global Climate Model (GCM) of the Martian atmosphere is the result of twenty years of ongoing collaboration between our teams and has matured to the point of enabling to study

the main cycles (dust, CO₂, water) of present-day and past Martian climates.

At the 2014 scientific assembly, we will report on the latest developments and improvements of our GCM, and also present the latest version of the Mars Climate Database (version 5.1) that is derived from GCM outputs, along with comparisons with available measurements (from TES, MCS, Viking, Phoenix, Curiosity, etc.).